## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/23116

| A. CLASSIFICATION OF SUBJECT MATTER   |   |   |                             |  |
|---|---|---|-----------------------------|--|
| IPC( ): G01N 3/08, 3/10, 11/00<br>US CL : 73/821, 822, 823, 824, 825  |   |   |                             |  |
| According to International Patent Classification (IPC) or to both national classification and IPC   |   |   |                             |  |
| B. FIELDS SEARCHED  |   |   |                             |  |
| Minimum documentation searched (classification system followed by classification symbols) U.S.: 73/821, 822, 823, 824, 825  |   |   |                             |  |
| Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched   |   |   |                             |  |
| Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Continuation Sheet              |   |   |                             |  |
| C. DOCUMENTS CONSIDERED TO BE RELEVANT  |   |   |                             |  |
| Category *  | Citation of document, with indication, where a  |   | Relevant to claim No.       |  |
| Α   | US 3,713,592 A (BEIKE et al) 30 January 197 3 (30                                     | 01.1973), see the entire patent.  | 1-20                        |  |
| Α   | US 3,831,437 A (SHEETS et al)07 August 1974 (27.08.1974), see the entire patent. 1-20 |   | 1-20                        |  |
| Α   | US 5,402,366 A (KIHARA et al) 28 March 1995 (28.03.1995), see the entire patent. 1-20 |   | 1-20                        |  |
| Α   | US 5,454,260, A (WANG et al) 03 October 1995 (03.09.1995), see the entire patent.     |   |                             |  |
|   |   |   |                             |  |
| Further documents are listed in the continuation of Box C. See patent family annex.   |   |   |                             |  |
| Special categories of cited documents:  |   | "T" later document published after the inten-<br>and not in conflict with the application to  | out cited to understand the |  |
| "A" document particular   | defining the general state of the art which is not considered to be of relevance      | principle or theory underlying the inven  | tion                        |  |
| "E" earlier application or patent published on or after the international filing date   |   | "X" document of particular relevance; the cl<br>considered novel or cannot be considered<br>when the document is taken alone  |                             |  |
| "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) |   | "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious |                             |  |
| "O" document  | referring to an oral disclosure, use, exhibition or other means                       | to a person skilled in the art  |                             |  |
| "P" document published prior to the international filing date but later than the priority date claimed  |   | "&" document member of the same patent fa   | amily                       |  |
|   |   | Date of mailing of the international search report 2 2 APR 2005   |                             |  |
|   |   |   |                             |  |
| Mail Stop PCT, Attn: ISA/US   |   | Authorized officer Judge On who for   |                             |  |
| Commissioner for Patents  |   | Max Noori   |                             |  |
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| Continuation of B. FIELDS SEARCHED Item 3:   | ı              |  |  |  |
| East search terms: crushing, strength particle, piston, size, distribution, compare, motor |                |  |  |  |
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